

CLAIMS

What is claimed is:

1. A method of operating a robot cleaner comprising:
using a remote control to provide an indication concerning a room state to a robot cleaner;
and
in an automatic cleaning mode, using a processor on the robot cleaner to direct the robot cleaner to clean the room, the processor using the indication to set a cleaning pattern for the automatic cleaning mode.
2. The method of claim 1, wherein the room state indication is an indication of room size.
3. The method of claim 1, wherein the room state indication is an indication of room dirtiness.
4. The method of claim 1, wherein the indication is used to set an overlap in the cleaning pattern.
5. The method of claim 1, wherein the automatic cleaning mode includes cleaning a subgrid of predetermined dimensions.
6. The method of claim 5, wherein the subgrid is cleaned in a serpentine pattern.
7. The method of claim 5, wherein the predetermined dimensions are set based on the indication
8. The method of claim 1, wherein the remote control is adapted to switch the robot cleaner between a user controlled mode and the automatic cleaning mode and in the user controlled mode, commands from the remote control are used to direct the robot cleaner.
9. A robot cleaner comprising:

a cleaning unit on the robot cleaner; and
a processor adapted to receive an indication concerning a room state from a remote control, in an automatic cleaning mode, the processor is adapted to direct the robot cleaner to clean the room, the processor adapted to use the indication to set a cleaning pattern for the automatic cleaning mode.

10. The robot cleaner of claim 9, wherein the room state indication is an indication of room size.

11. The robot cleaner of claim 9, wherein the room state indication is an indication of room dirtiness.

12. The robot cleaner of claim 9, wherein the indication is used to set an overlap in the cleaning pattern.

13. The robot cleaner of claim 9, wherein the automatic cleaning mode includes cleaning a subgrid of predetermined dimensions.

14. The robot cleaner of claim 13, wherein the subgrid is cleaned in a serpentine pattern.

15. The robot cleaner of claim 13, wherein the predetermined dimensions are set based on the indication

16. The robot cleaner of claim 9, wherein the remote control is adapted to switch the robot cleaner between a user controlled mode and the automatic cleaning mode and in the user controlled mode, commands from the remote control are used to direct the robot cleaner.

17. A method of operating a robot cleaner comprising:
using a remote control to provide a control indication to a robot cleaner; and
using a processor on the robot cleaner to direct the robot cleaner to clean the room, the processor using the control indication to determine how to control the robot cleaner.

18. The method of claim 17, wherein the control indication is a room state indication.
19. The method of claim 18, wherein the room state indication is an indication of room size.
20. The method of claim 18, wherein the room state indication is an indication of room dirtiness.
21. The method of claim 18, wherein the control indication is a direction indication.
22. The method of claim 18, wherein the control indication is used to set an overlap in the cleaning pattern.
23. The method of claim 18, wherein the automatic cleaning mode includes cleaning a subgrid of predetermined dimensions.
24. The method of claim 23, wherein the subgrid is cleaned in a serpentine pattern.
25. The method of claim 23, wherein the predetermined dimensions are set based on the indication
26. The method of claim 18, wherein the remote control is adapted to switch the robot cleaner between a user controlled mode and the automatic cleaning mode and in the user controlled mode, commands from the remote control are used to direct the robot cleaner.